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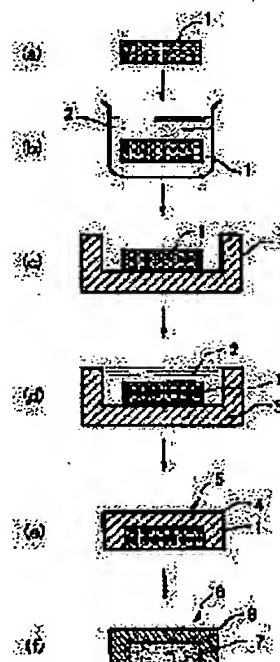
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(54) PRODUCTION OF PARTIALLY POROUS CERAMIC AND FLUID BEARING OBTAINED FROM PARTIALLY POROUS CERAMIC

(57)Abstract:

PURPOSE: To easily and integrally mold partially porous ceramic having a porous part complicated in shape by forming a composite structure wherein porous foam having specific values in compression strength at drying time and wetting time is included in a ceramic molded object by cast molding to bake the same.

CONSTITUTION: As porous foam 1, one wherein 25% compression strengths at drying and wetting times are respectively 1-50kgf/cm² and 0.5-8kgf/cm² and the 25% compression strength ratio at the drying and wetting times is 1.0 or more is used and, for example, open-cell porous polyvinyl formal is designated. This foam is processed into a desired shape to be impregnated with a ceramic molding slurry 2. This foam is transferred to a water absorbable mold 3 and the mold 3 is filled with the slurry 2. After demolding, the formed object is dried and processed to be baked. This porous foam 1 can be subjected to precise cutting processing at a drying time and has hardness capable of holding its self-shape at a wetting time and flexibility capable of absorbing deformation at the time of drying shrinkage.



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